PATENT

RESPONSE UNDER 37 C.F.R. 1.116 - EXPEDITED **PROCEDURE - EXAMINING GROUP 1645**

Confirmation No.: 5142

N THE UNITED STATES PATENT AND TRADEMARK

Appl. No.:

09/856,969

Applicant(s):

Chantal Cayeula et al.

Filed:

August 1, 2001

Art Unit:

1645

Examiner:

Jana Hines

Title:

SELECTION AND USES OF LACTIC ACID BACTERIA STRAINS

MODULATING NON-SPECIFIC IMMUNITY

Docket No.:

033339/234602

Customer No.: 00826

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

AMENDMENT AFTER FINAL ACTION **PURSUANT TO 37 C.F.R. § 1.116**

Sir:

In response to the Final Office Action dated December 11, 2003, please amend the aboveidentified application as follows:

Amendments to the Claims are reflected in the listing of claims beginning on page 2 of this paper.

Remarks/Arguments begin on page 4 of this paper.

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Amendments To The Claims:

- 1. (Currently Amended) A method for regulating the inflammatory response of enterocytes, said method comprising contacting said enterocytes with a composition containing as an active agent a lactic acid bacteria strain capable of decreasing the production of nitric oxide (NO) by cultures of enterocytes preactivated with a mixture of pro-inflammatory cytokines comprising II.1-B. TNF- α , and IFN- α and bacterial lipopolysaccharides (LPS).
- 2. (Previously Amended) A method according to Claim 1, wherein said strain is also capable of increasing the production of NO by cultures of enterocytes preactivated with proinflammatory cytokines.
- 3. (Previously Amended) A method according to Claim 1, wherein said bacterial strain is a Lactobacillus casei (L. casei) strain.
- 4. (Previously Amended) A method according to Claim 1, wherein said bacterial strain is the L. casei strain CNCM I-1518.
- 5. (Previously Amended) A method according to Claim 1, wherein said composition is in the form of a food supplement.
- 6. (Previously Amended) A method according to Claim 1, wherein said composition is in the form of a fermented dairy product.
- 7. (Withdrawn) Process for screening novel lactic acid bacterial strains which have properties which modulate non-specific immunity, which comprises selecting lactic acid bacteria strains capable of inhibiting the production of NO by cultures of enterocytes preactivated with pro-inflammatory cytokines and bacteria LPS.

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- 8. (Withdrawn) Process according to Claim 7, which also comprises a step of selecting strains capable of increasing the production of NO by cultures of enterocytes preactivated with pro-inflammatory cytokines.
- 9. (Withdrawn) Process according to Claim 7, wherein said strains are screened using cultures of lactic acid bacteria chosen from the group consisting of lactobacilli, lactococci, streptococci and bifidobacteria.
- 10. (Previously Amended) A method according to Claim 1, wherein the lactic acid bacteria is in the form of whole bacteria which may or may not be living.
- 11. (Previously Amended) A method according to Claim 1, wherein the lactic acid bacteria is in the form of a bacterial lysate.
- 12. (Previously Amended) A method according to Claim 1, wherein the lactic acid bacteria is in the form of bacterial fractions.

13-20 (Cancelled)